

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (Currently amended) A system for enabling one or more
2 arbitrary components to communicate with each other, the system
3 comprising:
4 a first component associated with one or more universal interfaces,
5 wherein the one or more universal interfaces comprise executable code and
6 data;
7 a second component obtaining one of the one or more universal
8 interfaces associated with the first component, wherein the second component
9 includes a discovery mechanism configured to discover the first component;
10 wherein the second component automatically invokes at least one of the
11 universal interfaces to communicate with the first component; and
12 wherein the second component and the first component do not share a
13 standard communication protocol which is distinct from a discovery protocol
14 that is part of the discovery mechanism.

1 2. (Original) The system as set forth in claim 1 wherein the first
2 component transfers a data object to the second component, the data object
3 having the one or more universal interfaces.

1 3. (Original) The system as set forth in claim 1 wherein the first
2 component transfers a data object to the second component, the data object

3 having instructions and data for accessing the one or more universal interfaces.

1 4. (Original) The system as set forth in claim 1 wherein the second
2 component has instructions and data for accessing a data object, the data object
3 having the one or more universal interfaces.

1 5. (Original) The system as set forth in claim 1 wherein the second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for accessing a data object
4 having the one or more universal interfaces.

1 6. (Original) The system as set forth in claim 1 wherein the second
2 component has instructions and data for using the one or more universal
3 interfaces.

1 7. (Original) The system as set forth in claim 1 wherein a third
2 component transfers a data object to the second component, the data object
3 having the one or more universal interfaces associated with the first
4 component.

1 8. (Original) The system as set forth in claim 1 wherein the one or more
2 universal interfaces comprise a data source interface, a data sink interface, an
3 aggregation interface, a mutable aggregation interface, a context interface, a
4 notification interface or a user interface.

1 9. (Original) The system as set forth in claim 1 wherein the one or more
2 universal interfaces comprise object-oriented mobile code having instructions
3 for obtaining, interpreting, viewing or modifying data associated with one or

4 more collections of components, providing one or more user interfaces to allow
5 one or more components to be accessed or manipulated, allowing one or more
6 components to provide event notifications or retrieving contextual data
7 associated with the second component.

1 10. (Original) The system as set forth in claim 1 wherein one of the one
2 or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 11. (Original) The system as set forth in claim 1 wherein the one or more
2 arbitrary components comprise a computer system, device, network service,
3 application, data, memory, file directory or individual file.

1 12. (Currently amended) A method for enabling one or more
2 arbitrary components to communicate with each other, the method
3 comprising:
4 performing a discovery operation at a second component to
5 discover a first component;
6 obtaining one of one or more universal interfaces associated with
7 the first component at the second component, wherein the one or more
8 universal interfaces comprise executable code and data;
9 automatically invoking at least one of the universal interfaces at the
10 second component to communicate with the first component; and
11 wherein the second component and the first component do not share a
12 standard communication protocol which is distinct from a discovery protocol
13 that is part of the discovery operation.

1 13. (Original) The method as set forth in claim 12 further comprising
2 transferring a data object to a second component, the data object having the one
3 or more universal interfaces.

1 14. (Original) The method as set forth in claim 12 further comprising
2 transferring a data object to a second component, the data object having
3 instructions and data for enabling the second component to use the one or more
4 universal interfaces.

1 15. (Original) The method as set forth in claim 12 further comprising
2 transferring a data object to a second component, the second component having
3 instructions and data for enabling it to use the one or more universal interfaces.

1 16. (Original) The method as set forth in claim 12 wherein a second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for enabling the second
4 component to use the one or more universal interfaces.

1 17. (Original) The method as set forth in claim 12 wherein a second
2 component performs instructions for using the one or more universal interfaces.

1 18. (Original) The method as set forth in claim 12 wherein a third
2 component transfers a data object to a second component, the data object having
3 the one or more universal interfaces associated with the first component.

1 19. (Original) The method as set forth in claim 12 wherein the one or
2 more universal interfaces comprise a data source interface, a data sink interface,
3 an aggregation interface, a mutable aggregation interface, a context interface, a

4 notification interface or a user interface.

1 20. (Original) The method as set forth in claim 12 wherein the one or
2 more universal interfaces comprise object-oriented mobile code having
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing
4 or modifying data associated with a collection of components, providing an
5 interface to allow requested components to be accessed or manipulated directly,
6 allowing requested components to provide the one or more other components
7 with status updates of the requested components or retrieving contextual data
8 associated with the second component.

1 21. (Original) The method as set forth in claim 12 wherein one of the
2 one or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 22. (Original) The method as set forth in claim 12 wherein the one or
2 more arbitrary components comprise a device, network service, application,
3 data, memory, file directory or individual file.

1 23. (Currently amended) A computer readable medium having
2 stored thereon instructions for enabling one or more arbitrary
3 components to communicate with each other, which when executed by
4 one or more processors, causes the processors to perform the steps of:
5 discovering a first component at a second component;
6 obtaining one of one or more universal interfaces associated with
7 the first component at the second component, wherein the one or more
8 universal interfaces comprise executable code and data;

9 automatically invoking at least one of the universal interfaces at the
10 second component to communicate with the first component ; and
11 wherein the second component and the first component do not share a
12 standard communication protocol which is distinct from a discovery protocol
13 that is part of the discovering step.

1 24. (Original) The medium as set forth in claim 23 further comprising
2 transferring a data object to a second component, the data object having the one
3 or more universal interfaces.

1 25. (Original) The medium as set forth in claim 23 further comprising
2 transferring a data object to a second component, the data object having
3 instructions and data for enabling the second component to use the one or more
4 universal interfaces.

1 26. (Original) The medium as set forth in claim 23 further comprising
2 transferring a data object to a second component, the second component having
3 instructions and data for enabling it to use the one or more universal interfaces.

1 27. (Original) The medium as set forth in claim 23 wherein a second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for enabling the second
4 component to use the one or more universal interfaces.

1 28. (Original) The medium as set forth in claim 23 wherein a second
2 component performs instructions for using the one or more universal interfaces.

1 29. (Original) The medium as set forth in claim 23 wherein a third

2 component transfers a data object to a second component, the data object having
3 the one or more universal interfaces associated with the first component.

1 30. (Original) The medium as set forth in claim 23 wherein the one or
2 more universal interfaces comprise a data source interface, a data sink interface,
3 an aggregation interface, a mutable aggregation interface, a context interface, a
4 notification interface or a user interface.

1 31. (Original) The medium as set forth in claim 23 wherein the one or
2 more universal interfaces comprise object-oriented mobile code having
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing
4 or modifying data associated with a collection of components, providing an
5 interface to allow requested components to be accessed or manipulated directly,
6 allowing requested components to provide the one or more other components
7 with status updates of the requested components or retrieving contextual data
8 associated with the second component.

1 32. (Original) The medium as set forth in claim 23 wherein one of the
2 one or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 33. (Original) The medium as set forth in claim 23 wherein the one or
2 more arbitrary components comprise a device, network service, application,
3 data, memory, file directory or individual file.

1 34 – 44 (Cancelled).